

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A rotary electric machine comprising:

a stator core having a three-phase armature winding ~~and a field coil~~;

an inductor rotor disposed opposite said stator core via a first air gap;

a field coil; and

a magnetic circuit means for connecting said rotor, said stator core via a second air gap, wherein;

said inductor rotor comprises a plurality of magnetically conductive portions, a plurality of permanent magnets and magnetically non-conductive portions that are ~~alternately~~parallelly disposed in the circumferential direction thereof between said first air gap and said second air gap so as to change magnetic flux flowing through said inductor when said inductor rotates; and

said plurality of permanent magnets is magnetized to increase magnetic flux flowing through said inductor; and

said magnetic circuit means comprises a cylindrical portion around which said inductor rotor is disposed and a base portion around which said field coil is wound.

2. (Currently Amended) The rotary electric machine as claimed in claim 1,

wherein said ~~inductor rotor comprises a~~ plurality of permanent magnets ~~having the same polarity~~ is disposed in the circumferential direction ~~thereof~~ of said inductor rotor at two magnetic pole-pitches.

3. (Canceled)

4. (Original) The rotary electric machine as claimed in claim 1, further comprising a rectifier unit connected to said armature winding for providing dc output power and a field current control unit connected to said field coil and said rectifier unit for supplying field current to said field coil.

5. (New) A rotary electric machine comprising:
a stator core having a plurality of teeth on which a three-phase armature winding is mounted;
a generally cylindrical inductor rotor having a first peripheral surface disposed opposite said stator core via a first air gap and a second peripheral surface;
a magnetic circuit means for magnetically exciting said stator core through said inductor rotor, said magnetic circuit means having a first portion disposed opposite the second peripheral surface of said inductor rotor via a second air gap and a second portion disposed between said first portion and said stator core around which a field coil is wound;
wherein:
said inductor rotor comprises a plurality of magnetically conductive portions disposed in the circumferential direction thereof to magnetically connect the teeth of said stator core and said first portion of said magnetic circuit means, a plurality of magnetically non-conductive portions and a plurality of permanent magnets magnetized to have a polarity opposite magnetic motive force of said stator core and disposed in parallel with the magnetically conductive portions.

6. (New) The rotary electric machine as claimed in claim 5 further comprising a frame, wherein said magnetic circuit means is integrated with said frame.

7. (New) The rotary electric machine as claimed in claim 6, wherein said frame is made of cast iron.

8. (New) The rotary electric machine as claimed in claim 5 further comprising a rotary shaft, wherein said first and second portions of said magnetic circuit means have an inner bore through which said rotary shaft extends to freely rotate.

9. (New) The rotary electric machine as claimed in claim 5, wherein said inductor rotor further comprises an outer ring, an inner ring and a plurality of honeycomb shaped slots disposed between said outer ring and inner ring.